Service manual
Urinal flusher model NIL*plus nova*

Urinal flusher	Order-no.	Nominal size	Flow pressure bar	Flush pipe Ø mm
NIL***plus nova***	1130 1131	½“ DN15	1,2 – 4,0	18 x 16,5

1. <u>Order-nos. and scope of delivery.</u>

1.1 <u>Description:</u> Urinal flusher NIL***plus nova***, order-no. **1130**, consisting of:

- Urinal flusher ½“ chrome-plated, with push-button operation
- Flush pipe, chrome-plated, Ø 18 mm x 190 mm straight
- Internal urinal connector, chrome-plated
- Wall rosette, chrome-plated
- Service manual

1.2 <u>Description:</u> Urinal flusher NIL***plus nova***, order-no. **1131** with supply stop and adjustable operation time**,** consisting of:

- Urinal flusher ½“ chrome-plated, with supply stop and push-button operation with adjustable operation time
- Flush pipe, chrome-plated Ø 18 mm x 190 mm straight
- Internal urinal connector, chrome-plated
- Wall rosette, chrome-plated
- Service manual

2. <u>Technical data.</u>

2.1 NIL***plus nova***, order-no. **1130**

- The automatic flush volume and operation time provides a flush volume of 3 ± 1,0 l at 1,2 – 4,0 bar flow pressure, acc. to DIN EN 12541:2002 urinal flusher DN 15 class 4.

2.2 NIL***plus nova***, order-no. **1131**

- Adjustable operation time
- Flush volume adjustable using the integrated supply stop

3. <u>Application area.</u>

3.1 NIL***plus nova***, order-no. **1130**

- Class 4 for displacement bowls with high flow-rates, siphonic bowls and urinals with flushing nozzles.

3.2 NIL***plus nova***, order-no. **1131**

- Class 1, 5 for displacement bowls with low flow-rates
- Class 4 for displacement bowls with high flow-rates, siphonic bowls and urinals with flushing nozzles.

Flush pipes in different lengths and cranked versions can be found in our main catalogue (→ accessories for urinal flushers).

TECHNIK PLUS DESIGN
aus gutem Hause

FRIEDRICH GAMPPER KG
P.O. Box 1164 • D - 71534 Murrhardt
Tel. +49 (0) 7192-971-0 • Fax 971-105
www.nil-gampper.de • info@nil-gampper.de

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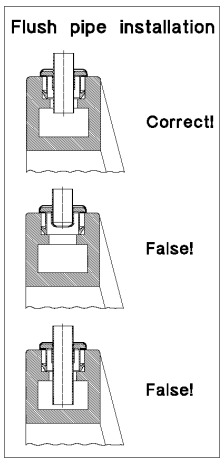


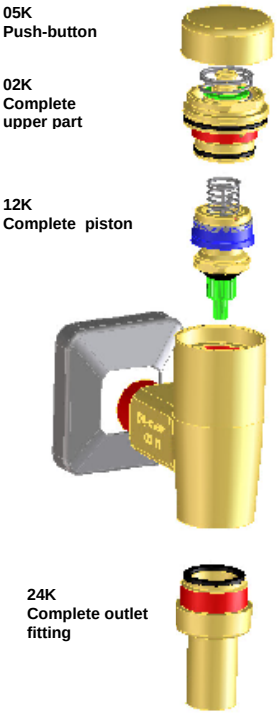
4. Installation and start-up.

- Purge the supply pipe thoroughly before and after installing the urinal flusher.
- Assemble the flush pipe without tension between urinal flusher and urinal bowl. Small tensions can be balanced by the internal urinal connector.
- To avoid back-pressure towards the urinal flusher, make sure the flush pipe does not extend into the urinal bowl too much.
- Generally, it is recommended to install a dirt-filter at the entrance of the water main to protect all the taps of the domestic installations.

5. Servicing and troubleshooting.

Make sure to lock the supply pipe or to operate the integrated supply-stop.

Failure	Cause	Repair
Flusher operates too long	a) Upper part defective b) Piston scaled	Clean whole upper part (02K) resp. replace it or repair it with spare parts Dismantle and clean piston (12K) resp. replace it or repair it with spare parts
Flusher operates too short	Piston sleeve damaged	Exchange complete piston (12K) or repair it with spare parts
Flusher provides insufficient water	Pollution of water-bearing parts by dirt particles	Dismantle internal parts of flusher and clean them. Purge casing thoroughly.



24K
Complete outlet fitting

6. Spare parts.

The whole range of spare parts can be found in our spare parts list.

Order-no.	Spare part
1130/2K	**Complete upper part** (without push-button)
1130/12K	**Complete piston** (with piston spring)
1130/50	**Set of seals**
1130/51	**Set of spare parts (seals and springs)**

7. Important advice.

- Installation, start-up and troubleshooting by professionals only.
- Make sure to stick to statutory provisions and the technical guidelines of your local water distribution company.
- Purge supply pipe acc. to DIN 1988.
- Use soft detergents only to clean the surface of the flusher. Rinse surface afterwards thoroughly with water. Do not use high-pressure cleaners.
- All information are subject to change without notice.

8. Warranty.

Warranty acc. to our general terms of business. Use genuine spare parts only.

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